WE CLAIM:

1	1. A method for establishing a secure connection between a client platform
2	and a service, comprising:

- downloading a digitally signed applet from the service to the client platform; verifying the digitally signed applet at the client platform using a first public key the client platform already knows and trusts;
- executing the applet at the client platform, thereby controlling the client platform to store a second public key corresponding to the server; and using the stored second public key to authenticate the service and establish the secure connection.
- 2. The method of claim 1 wherein the applet includes first program code that controls the client platform to store the second public key to a non-volatile memory.
 - 3. The method of claim 2 wherein the non-volatile memory comprises disk.
- 4. The method of claim 2 wherein the applet further includes second program code that controls the client platform to use the stored second public key to verify a signature subsequently provided by the server.
- 5. The method of claim 1 wherein the applet further includes program code that controls the client platform to use the stored second public key to verify a signature subsequently provided by the server.
- 6. The method of claim 1 wherein the executing step includes controlling the client platform to store a second public key in the form of a digital certificate corresponding to the server, and the using step comprises receiving a digital signature from the server, and authenticating the received digital signature under control of the executing applet through use of the stored digital certificate corresponding to the server.

- 7. The method of claim 1 wherein the using step includes having the executing applet invoke a further applet to establish a secure connection.
- 8. The method of claim 1 wherein the applet comprises a signed Java
 Archive containing a digital certificate corresponding to the server, and a program
- 3 fragment that stores the digital certificate in a predetermined location on the client
- 4 platform that permits the client platform to later retrieve the stored digital
- 5 certificate.

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- 9. A client platform for establishing a secure connection with a service over a network, comprising:
- an applet receiver that receives a digitally signed applet from the service over the network;

an applet verifier that verifies the digitally signed applet using a first public key the client platform already knows and trusts;

an applet executor that executes the applet, thereby controlling the client platform to store a second public key corresponding to the server, and uses the stored second public key to authenticate the service and establish the secure connection.

- 1 10. A method for establishing a secure connection with a client, comprising:
- downloading an applet to the client platform, the digitally signed applet
- 3 being digitally signed such that the client platform can verify the digitally signed
- 4 applet using a first public key the client platform already knows and trusts, the
- 5 digitally signed applet including a second public key and code that controls the
- 6 applet to store the second public key on the client platform;
- 7 sending a digital credential to the client, said digital credential being
- 8 verifiable by the client platform using the stored second public key; and

- 11. The method of claim 10 wherein the applet code controls the client
 platform to store the second public key to a non-volatile memory.
- 1 12. The method of claim 11 wherein the non-volatile memory comprises disk.

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- 13. The method of claim 10 wherein the applet further includes further code that controls the client platform to use the stored second public key to verify the digital credential.
 - 14. The method of claim 10 further including sending a further applet to the client platform in response to an invocation of the further applet by the first-mentioned applet.
 - 15. The method of claim 10 wherein the applet comprises a signed Java Archive containing a digital certificate, and a program fragment that stores the digital certificate in a predetermined location on the client platform that permits the client platform to later retrieve the stored digital certificate.
 - 16. A server for establishing a secure connection with a client over a network, comprising:

an applet transmitter that transmits a digitally signed applet to the client over the network, the applet being digitally signed using a first public key the client already knows and trusts, the applet including a program that controls the client to store a second public key corresponding to the server; and

a digital credential transmitter that transmits a digital credential to the client executing the applet, the digital credential being authenticatable by the second public key.

1	17. A method for establishing a secure connection between a server and a
2	web browser having access to a first, trusted public key, comprising:
3 .	downloading a digitally signed item from the server to the browser, the item
4	including a second public key;
5	verifying the digitally signed item at the browser using the first public key;
6	storing the second public key in response to the verifying step; and
7	using the stored second public key to authenticate the server.
1	18 A method as in claim 17 wherein the item comprises a Java archive